

Missouri Department of Natural Resources
Outreach and Assistance Center

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Water & Wastewater Digest

Vol. XXVIII, No. 5

September/October 2002

Deadline Fast Approaches for Mandatory Missouri One Call Registration

Missouri utilities having underground facilities, and located in a first or second class county must be a member of the Missouri One Call System by January 1, 2003. Here's what the law says:

MO State Statute 319.022

1. Owners and operators of underground pipeline facilities in compliance with federal law shall, and owners and operators of other underground facilities may, participate in a notification center. The provisions of this subsection shall expire on December 31, 2002.
2. All owners and operators of underground facilities which are located in a county of the first classification or second classification within the state who are not members of a notification center on August 28, 2001, shall become participants in the notification center prior to January 1, 2003. Any person who installs or otherwise becomes an owner or operator of an underground facility which is located within a county of the first classification or second classification on or



after January 1, 2003, shall become a participant in the notification center within thirty days of acquiring or operating such underground facility. Beginning January 1, 2003, all owners and operators of underground facilities which are located in a county of the first classification or second classification within the state shall maintain participation in the notification center.

3. All owners and operators of underground facilities which are located in a county of the third classification or fourth classification within the state who are not members of a notification center on August 28, 2001, shall become participants in the notification center prior to January 1, 2005. Any person who installs or otherwise becomes an owner or operator of an underground facility which is located within a county of the third classification or fourth classification on or after January 1, 2005, shall become a participant in the notification center within thirty days of acquiring or operating such underground facility. Beginning January 1, 2005, all owners and operators of underground facilities which are located in a county of the third classification or fourth classification within the state shall maintain participation in the notification center.

4. The notification center shall maintain in its offices and make available to any person upon request a current list of the names and addresses of each owner and operator participating in the notification center, including the county or counties wherein each owner or operator has underground facilities. The notification center may charge a reasonable fee to persons requesting such list as is necessary to recover the actual costs of printing and mailing.
5. Excavators shall be informed of the availability of the list of participants in the notification center required in subsection 3 of this section in the manner provided for in section 319.024.
6. An annual audit or review of the notification center shall be performed by a certified public accountant and a report of the findings submitted to the speaker of the house of representatives and the president pro tem of the senate.

For more information on Missouri One Call try this link:
[<http://www.mo1call.com/>].

Department of Natural Resources Operator Certification and Training Unit 2002 Examination Schedule

Date	Session No.	Location(s)	Filing Deadline
November 5	28	Northeast Regional Office, Macon	October 6
	29	Kansas City Regional Office, Lee's Summit Conference Center, 1738 E. Elm, Jefferson City	
December 2	31	Powder Valley Nature Center, St. Louis	November 3
December 3	32	Conference Center, 1738 E. Elm, Jefferson City	November 4

Regular wastewater examinations are scheduled for 9:00 a.m., and the water supply examinations are scheduled for 1:00 p.m. **unless otherwise noted on the admission letter.**

Safe Drinking Water Commission Meeting November 12

The Safe Drinking Water Commission will meet on Nov. 12 in Jefferson City. The commission's tentative agenda at this time includes discussion of and approval to proceed with proposed rulemakings on the Public Notice, Arsenic, and Long-Term 1 Enhanced Surface Water Treatment Rules. The meeting will be held at the Conference Center, 1738 East Elm Street, Jefferson City.

People with disabilities requiring special services or accommodations to attend this meeting can make arrangements by calling the Public Drinking Water Program at 1-800-361-4827 or (573) 751-5331, or by writing several days in advance of the meeting to:

Missouri Department of
Natural Resources
Public Drinking Water Program
P.O. Box 176
Jefferson City, MO 65102-0176

SDWC Adopts Radionuclide and Filter Backwash Rules and DWSRF Intended Use Plan

The Safe Drinking Water Commission met Tuesday, July 16 in Jefferson City. The commission approved three decision items.

The commission approved changes to the drinking water rules that adopt federal rules on radionuclides and filter backwash recycling (FBR). The FBR rule requires drinking water systems using surface water to recycle filter backwash through the treatment process to enhance microbial control. The radionuclide rule sets a maximum contaminant level for uranium of 30 micrograms per liter for uranium and modifies radionuclide monitoring requirements. The state rules affected by this rulemaking are 10 CSR 60-4.050 and 10 CSR 60-4.060. The revised rules are expected to be published in the Oct. 30 update to the Code of State Regulations and will become effective Nov. 30, 2002.

The commission also adopted the FFY 2002 Drinking Water State Revolving Fund Intended Use Plan. The IUP describes the intended use of federal

and state funds in the Drinking Water State Revolving Fund. Steve Jones of the Public Drinking Water Program explained to the commission that the applications received by the fall 2001 deadline fell short of the funding available by about \$15 million. The application deadline was extended to May 1, 2002, and sufficient additional applications were received to utilize the funding available. Overall, the total project loan fund approved by the commission in this IUP is \$104,268,260.

For more information, contact the following Public Drinking Water Program staff at 1-800-361-4827 or (573) 751-5331: on the filter backwash recycling rule, Breck Summerford; on the radionuclide rule, Ken Duzan; on the DWSRF IUP, Jones; on future Safe Drinking Water Commission meetings, Cynthia Bowser.

Draft Drinking Water Rules Available for Comment

The Public Drinking Water Program's preliminary draft rules adopting EPA's Arsenic and Long-Term 1 Enhanced Surface Water Treatment Rules are available on the program's web page and are open for public comment. The rules are available at: [\[http://www.dnr.state.mo.us/wpscd/pdwp/draft/Draft.htm\]](http://www.dnr.state.mo.us/wpscd/pdwp/draft/Draft.htm).

Comments would be appreciated by Oct. 15. Staff must finalize the draft rules for Safe Drinking Water Commission review by the end of October. The SDWC will decide at its Nov. 12 meeting whether to begin the formal rulemaking process and publish proposed rules in the Missouri Register.

For more information, contact the following Public Drinking Water Program staff at 1-800-361-4827 or (573) 751-5331: on the arsenic rule, Ken Duzan; and on LT1ESWTR, Todd Eichholz.

2 Dead, 10 Hurt from Sewer Gas

DES MOINES, Iowa, July 9, 2002 (AP) – Autopsies were scheduled Tuesday on the bodies of two sewer workers who died after breathing a toxic sewer gas while working in a 15-foot pit.

Five other workers were rescued by firefighters from the pit in an industrial area on the city's east side. Five firefighters were also hospitalized.

City officials said the dead men worked for Insituform Technologies Inc., a company specializing in the repair of city sewers. Their names had not been released Tuesday morning.

"This is a tragedy for all of us," said Tony Hooper, the board chairman, president and chief executive of Insituform, based in the St. Louis suburb of Chesterfield. "We have to figure out what went wrong at the job site to make sure this doesn't happen again."

Fire officials said hydrogen sulfide gas apparently cut off oxygen to the workers in the sewer.

"It appears that the two workers had been working in an area of the sewer line that had water in its base," Assistant

Chief James Mason said. "This water had been stirred which emitted hydrogen sulfide gas."

Hydrogen sulfide is a naturally occurring gas that is produced by the decomposition of organic materials such as sewage, Mason said.

"Hydrogen sulfide gas is heavier than air and displaces oxygen from the air," Mason said. "These workers were likely not overcome by the gas; however, a lack of oxygen caused them to go unconscious. Both victims were found lying in the water at the bottom of the pit."

Five firefighters, who officials say were wearing response gear, were overcome by the heat and the chemical during the rescue and were taken to area hospitals.

Workers at the site were working on a city sewer line which runs between the distribution plant and a railroad line.

HazMat teams and emergency responders roped off the area at least 200 feet from the entrance to the sewer pipe and pumped oxygen into the tunnel.

Acting Fire Chief Doug Rubin said the smell was "very pungent" close to the hole.

"When they went down in the hole, they go down with hardhats and lights, not necessarily any breathing equipment," Rubin said of the workers. "This is something they do all the time. This is obviously an oddity, what happened today."

Rubin said the crew had used air monitoring equipment to test the atmosphere before entering the tunnel, but the environment changed.

Mary Bryant, director of Iowa Occupational Safety and Health enforcement, said her agency will investigate.

All the injured Insituform employees were from the St. Louis area. The company, considered international experts in sewer and water line repair, has worked for the city for several years.

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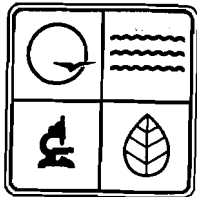
Laboratory Holidays

The state health laboratory will be closed on the following state holidays:

October 14, 2002, Columbus Day

November 11, 2002, Veterans Day





**MISSOURI DEPARTMENT OF NATURAL RESOURCES
OUTREACH AND ASSISTANCE OFFICE
P.O. Box 176 Jefferson City, MO 65102-0176**

DOCUMENT DISTRIBUTION SERVICES

The following is a list of prices and training manuals that we currently stock:

Qty	PUB#	Title	Price	Total
	381	<u>AWWA's Water Distribution Operator Training Handbook</u>	\$30.00	
	382	<u>AWWA's Operator Certification Study Guide (Questions & Answers)</u> <u>A Workbook for Treatment Plant Operators & Distribution System Personnel</u>	\$26.00	
	383	<u>Laboratory Manual for Waterworks Operators</u>	\$ 1.50	
		California State University manuals—		
	384	<u>Water Treatment Plant Operation Volume I</u>	\$33.00	
	385	<u>Water Treatment Plant Operation Volume II</u>	\$33.00	
	386	<u>Small Water System Operation and Maintenance</u>	\$22.00	
	387	<u>Water Distribution System Operation and Maintenance</u>	\$22.00	
	388	<u>Operation of Wastewater Treatment Plants Volume I</u>	\$22.00	
	389	<u>Operation of Wastewater Treatment Plants Volume II</u>	\$27.00	
	390	<u>Advanced Waste Treatment</u>	\$22.00	
	380	<u>Manual of Instruction for Water Treatment Plant Operators</u> (New York Manual)	\$16.00	
	379	<u>Manual of Instruction for Wastewater Treatment Plant Operators</u> Volume I & II (New York Manual) (Set of 2)	\$20.00	
Total of Book Order			\$	
Shipping Charges			\$	
Total Amount			\$	

Shipping Charges:

1 book \$3.00

2-3 books \$4.00

4-6 books \$5.00

More than 6 books – call for shipping charges

Please indicate below where to ship order.

Ship To: _____

Please make checks payable to: Missouri Department of Natural Resources, Environmental Assistance Office, P.O. Box 176, Jefferson City, MO 65102-0176

Questions concerning book orders may be directed to Beverly Buschmann at (573) 751-3443 or 1-800-361-4827.

DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING COURSES FOR 2002

Please contact the course coordinator at the phone number listed below their name for more information

Course Title Course Number	Course Location Sponsored By	Course Coordinator Coordinator Phone No.	First/Last Day	Number of Days	Renewal Credit Hours				
					Water	Wastewater	CAFO	Dist.	
Advanced W/WW Math 02-05-641	Neosho Everett William	Everett William 417-779-4482	09/10/02 09/10/02	1	6.0	6.0	6.0	6.0	
Basic Water & wastewater 02-03-567	Labelle MRWA	Mike Hollis 573-657-5533	09/10/02 09/10/02	1	7.0	7.0	7.0	7.0	
Intro Wastewater Lab - Part B 02-06-509	Union MoDNR/OAC	Lorene Lindsay 816-737-0580	09/10/02 09/18/02	4	3.0	30.0	0.0	0.0	
Surface Water Rule & Arsenic 02-04-647	Poplar Bluff MoDNR/PDWP	Todd Eichholz 573-751-5331	09/10/02 09/10/02	1	3.5	0.0	0.0	3.5	
Backflow Prevention 02-01-610	Cameron NWTC/MWWC	Angie Gilbreath 816-969-7606	09/11/02 09/11/02	1	6.0	6.0	6.0	6.0	
Environmental Mgmt Institute 02-04-230	Cape Girardeau MoDNR/EAO	Ellen Harrel 800-361-4827	09/11/02 09/12/02	2	7.0	8.0	0.0	7.0	
Fall 2002 Water Class 02-03-571	Rolla MoDNR/JCRO	Tim Campbell 573-751-2729	09/11/02 11/13/02	9	45.0	21.0	0.0	34.0	
Fall 2002 Water Class 02-03-590	Rolla MoDNR/JCRO	Tim Campbell 573-751-2729	09/11/02 12/04/02	9	45.0	21.0	0.0	34.0	
Fluid Handling & Sealing 02-06-487	Ballwin BRI, Inc	Jerry Atkins 636-227-2535	09/11/02 09/13/02	3	16.5	16.5	0.0	16.5	
Accident Investigation 02-01-527	Kansas City MARC	John Staples 816-474-4240	09/12/02 09/12/02	1	4.0	4.0	4.0	4.0	
Advancing Capacity Development 02-03-615	Ashland MRWA	Randy Norden 573-657-5533	09/12/02 09/12/02	1	6.5	0.0	0.0	5.0	
Backflow Prevention 02-01-611	Lee's Summit NWTC/MWWC	Angie Gilbreath 816-969-7606	09/12/02 09/12/02	1	6.0	6.0	6.0	6.0	
Smoke Testing For I & I 02-05-566	Hermitage MRWA	Mike Hollis 573-657-5533	09/12/02 09/12/02	1	0.0	6.0	0.0	0.0	
Electrical PM 02-06-061	Bridgeton Cntr. Tech. Inc	Jennifer Tucker 314-739-6050	09/13/02 09/13/02	1	6.5	6.5	6.5	6.5	
Surface Water Rule & Arsenic 02-05-648	Springfield MoDNR/PDWP	Todd Eichholz 573-751-5331	09/13/02 09/13/02	1	3.5	0.0	0.0	3.5	
Fluid Handling & Sealing 02-06-488	Ballwin BRI, Inc	Jerry Atkins 636-227-2535	09/16/02 09/18/02	3	16.5	16.5	0.0	16.5	
Surface Water Rule & Arsenic 02-06-649	St Louis MoDNR/PDWP	Todd Eichholz 573-751-5331	09/16/02 09/16/02	1	3.5	0.0	0.0	3.5	
" 503 Sludge Rule Workshop " 02-02-625	Hannibal Bluff EdgeEnv.	Randy Johnson 573-897-4458	09/17/02 09/17/02	1	2.0	6.0	0.0	0.0	
12 Day Water Treatment 02-02-483	Macon MoDNR/NERO	John Gibson 660-385-8003	09/17/02 10/31/02	12	59.5	22.5	0.0	27.0	
Water/Wastewater Math 02-01-446	Kansas City MARC	John Staples 816-474-4240	09/17/02 09/17/02	1	6.0	6.0	6.0	6.0	
" 503 Sludge Rule Workshop " 02-06-626	Farmington Bluff EdgeEnv.	Randy Johnson 573-897-4458	09/18/02 09/18/02	1	2.0	6.0	0.0	0.0	
" 503 Sludge Rule Workshop " 02-05-627	Seymour Bluff EdgeEnv.	Randy Johnson 573-897-4458	09/19/02 09/19/02	1	2.0	6.0	0.0	0.0	
Advancing Capacity Development 02-05-616	Cassville MRWA	Randy Norden 573-657-5533	09/19/02 09/19/02	1	6.5	0.0	0.0	5.0	
Surface Water Rule & Arsenic 02-03-650	St Louis MoDNR/PDWP	Todd Eichholz 573-751-5331	09/23/02 09/23/02	1	3.5	0.0	0.0	3.5	
MWWC Annual Meeting 02-03-664	Jefferson City MWWC	Sandi Miller 573-761-0376	09/24/02 09/26/02	3	12.5	12.5	0.0	12.5	
MWWC Annual Meeting (Tues.) 02-03-665	Jefferson City MWWC	Sandi Miller 573-761-0376	09/24/02 09/24/02	1	3.0	3.0	0.0	3.0	
MWWC Annual Meeting(Tue&Wed) 02-03-668	Jefferson City MWWC	Sandi Miller 573-761-0376	09/24/02 09/25/02	2	9.5	9.5	0.0	9.5	
Chemical Spill Response 02-03-674	Rolla SigmaConsulting	Chris Pappas 863-287-5957	09/24/02 09/24/02	1	7.5	7.5	0.0	7.5	
MWWC Annual Meeting (Wed.) 02-03-666	Jefferson City MWWC	Sandi Miller 573-761-0376	09/25/02 09/25/02	1	6.5	6.5	0.0	6.5	
MWWC Annual Meeting(Wed&Thur) 02-03-669	Jefferson City MWWC	Sandi Miller 573-761-0376	09/25/02 09/26/02	2	9.5	9.5	0.0	9.5	
Chem./Biol. PhosphorusRemoval 02-05-609	Branson Andy Brashear	Andy Brashear 417-762-3001	09/25/02 09/25/02	1	0.0	7.0	0.0	0.0	
Chemical Spill Response 02-02-675	Marshall SigmaConsulting	Chris Pappas 863-287-5957	09/25/02 09/25/02	1	7.5	7.5	0.0	7.5	
Confined Space Entry/Rescue 02-01-614	Oak Grove MARCIT	Theresa Coleman 816-474-4240	09/25/02 09/25/02	1	6.0	6.0	6.0	6.0	
MWWC Annual Meeting (Thur.) 02-03-667	Jefferson City MWWC	Sandi Miller 573-761-0376	09/26/02 09/26/02	1	3.0	3.0	0.0	3.0	

DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING COURSES FOR 2002

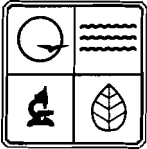
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Course Title Course Number	Course Location Sponsored By	Course Coordinator Coordinator Phone No.	First/Last Day	Number of Days	Renewal Credit Hours				
					Water	Wastewater	CAFO	Dist.	
Distribution/Wastewater Semina 02-05-617	Springfield MRWA	Randy Norden 573-657-5533	09/26/02 09/26/02	1	4.5	4.5	0.0	4.5	
Algae Identification 02-01-661	Lee's Summit MoDNR/KCRO	Mark Klaus 816-622-7042	09/27/02 09/27/02	1	5.5	5.5	5.5	5.5	
Adv. WW Module #1 Math 02-06-629	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/01/02 10/01/02	1	5.5	5.5	0.0	5.5	
Advanced W/WW Math 02-05-643	Monett MWWC	Everett William 417-779-4482	10/01/02 10/01/02	1	6.0	6.0	6.0	6.0	
Advanced Wastewater 02-06-628	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/01/02 11/05/02	11	18.5	63.5	0.0	18.5	
Advanced WW Treatment 02-01-575	Kansas City MARC	John Staples 785-474-4240	10/01/02 10/30/02	10	21.5	65.0	0.0	21.5	
Advanced WW Trmt Day 1 02-01-576	Kansas City MARC	John Staples 785-474-4240	10/01/02 10/01/02	1	1.5	6.5	0.0	1.5	
A B Wastewater Advanced 02-02-541	Macon MoDNR/NERO	Keith Phipps 660-385-2129	10/02/02 11/01/02	10	20.0	58.0	0.0	20.0	
Adv. WW Module #2 Chemistry 02-06-630	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/02/02 10/02/02	1	4.5	6.0	0.0	4.5	
Advanced WW Trmt Day 2 02-01-577	Kansas City MARC	John Staples 785-474-4240	10/02/02 10/02/02	1	4.0	6.5	0.0	4.0	
Lime Use in Water/Wastewater 02-04-622	St Genieve MWWC	Sandi Miller 573-761-0376	10/03/02 10/03/02	1	6.0	6.0	0.0	6.0	
Advanced W/WW Math 02-05-642	Mt Vernon Everett William	Everett William 417-779-4482	10/04/02 10/04/02	1	6.0	6.0	6.0	6.0	
Flagger Certification Class 02-01-605	Kansas City MARC	John Staples 785-474-4240	10/04/02 10/04/02	1	5.5	5.5	0.0	5.5	
Adv. WW Module #3 Biology 02-06-631	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/08/02 10/08/02	1	4.5	6.0	0.0	4.5	
Advanced W/WW Math 02-05-640	Mansfield MWWC	Everett William 417-779-4482	10/08/02 10/08/02	1	6.0	6.0	6.0	6.0	
Advanced WW Trmt Day 3 02-01-578	Kansas City MARC	John Staples 785-474-4240	10/08/02 10/08/02	1	0.0	6.5	0.0	0.0	
Class D Wastewater/Dist. 02-04-506	West Plains MWWC	Sandi Miller 573-761-0376	10/08/02 12/03/02	10	60.0	23.0	0.0	30.0	
503 Sludge Rule Workshop 02-01-612	Warrensburg NWTC/MWWC	Angie Gilbreath 816-969-7606	10/09/02 10/09/02	1	0.0	6.5	0.0	0.0	
Environmental Mgmt Institute 02-01-231	Maryville MoDNR/EAO	Ellen Harrel 800-361-4827	10/09/02 10/10/02	2	7.0	8.0	0.0	7.0	
Advanced WW Trmt Day 4 02-01-579	Kansas City MARC	John Staples 785-474-4240	10/10/02 10/10/02	1	0.0	6.5	0.0	0.0	
Adv. WW Module #4 Biological 02-06-632	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/15/02 10/27/02	3	0.0	18.0	0.0	0.0	
Advanced WW Trmt Day 5 02-01-580	Kansas City MARC	John Staples 785-474-4240	10/15/02 10/15/02	1	0.0	6.5	0.0	0.0	
Advanced WW Trmt Day 6 02-01-581	Kansas City MARC	John Staples 785-474-4240	10/16/02 10/16/02	1	6.5	6.5	0.0	6.5	
Basic Water & Wastewater Math 02-01-586	Pleasant Hill MRWA	Mike Hollis 573-657-5533	10/16/02 10/16/02	1	7.0	7.0	7.0	7.0	
Laboratory Training Seminar 02-06-535	Farmington MWEA & WEF	Pam Schweitzer 636 561 9486	10/17/02 10/17/02	1	1.0	5.5	0.0	0.0	
Advanced WW Trmt Day 7 02-01-582	Kansas City MARC	John Staples 785-474-4240	10/22/02 10/22/02	1	2.0	6.5	0.0	2.0	
Boilers Operator's Workshop 02-01-522	Kansas City NTT	Tonya Anderson 800-922-2820	10/22/02 10/24/02	3	21.0	21.0	21.0	21.0	
Adv. WW Module #5 Solids 02-06-633	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/23/02 10/23/02	1	0.0	6.0	0.0	0.0	
Advanced WW Trmt Day 8 02-01-583	Kansas City MARC	John Staples 785-474-4240	10/23/02 10/23/02	1	6.5	6.5	0.0	6.5	
Environmental Mgmt Institute 02-01-232	Excelsior Sprng MoDNR/EAO	Ellen Harrel 800-361-4827	10/23/02 10/24/02	2	7.0	8.0	0.0	7.0	
Centrifugal pumps 02-01-523	Kansas City NTT	Tonya Anderson 800-922-2820	10/24/02 10/25/02	2	14.0	14.0	14.0	14.0	
Competent Person Training 02-06-676	St Peters Schulte Supply	John Schulte 618-656-8383	10/24/02 10/24/02	1	7.0	7.0	7.0	7.0	
Fall O & M Symposium 02-03-671	Lake Ozarks MRWA	Randy Norden 573-657-5566	10/24/02 10/25/02	2	10.0	10.0	0.0	10.0	
Adv. WW Module #6 Chem. 02-06-634	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/29/02 10/29/02	1	0.5	6.0	0.0	0.5	

DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING COURSES FOR 2002

Please contact the course coordinator at the phone number listed below their name for more information

<u>Course Title</u> <u>Course Number</u>	<u>Course Location</u> <u>Sponsored By</u>	<u>Course Coordinator</u> <u>Coordinator Phone No.</u>	<u>First/Last Day</u>	<u>Number of Days</u>	<u>Renewal Credit Hours</u>				
					<u>Water</u>	<u>Wastewater</u>	<u>CAFO</u>	<u>Dist.</u>	
Advanced WW Trmt Day 9 02-01-584	Kansas City MARC	John Staples 785-474-4240	10/29/02 10/29/02	1	1.0	6.5	0.0	1.0	
Adv. WW Module #7 Tertiary 02-06-635	Warrenton Bluff EdgeEnv.	Randy Johnson 573-897-4458	10/30/02 11/05/02	2	3.5	6.0	0.0	3.5	
Advanced WW Trmt Day 10 02-01-585	Kansas City MARC	John Staples 785-474-4240	10/30/02 10/30/02	1	0.0	6.5	0.0	0.0	
Hazardous Waste/Emer. Response 02-01-604	Kansas City MARC	John Staples 785-474-4240	11/04/02 11/06/02	3	24.0	24.0	24.0	24.0	
Wastewater Lab 02-02-543	Macon MoDNR/NERO	Keith Phipps 660-385-2129	11/04/02 11/15/02	5	9.0	30.0	3.0	7.0	
Water Pretreatment Hands-on 02-09-002	Yuma, Az David Paul Inc	Jenny Lund 877-711-4347	11/04/02 11/06/02	3	22.0	0.0	0.0	0.0	
Lagoons 02-01-613	Clinton NWTC/MWWC	Angie Gilbreath 816-969-7606	11/06/02 11/06/02	1	0.0	5.5	4.0	0.0	
Operator Training Class 02-02-573	Kirksville MWWC	Sandi Miller 573-761-0376	11/06/02 11/06/02	1	0.0	6.0	0.0	0.0	
MWEA Annual Fall Conference 02-03-660	Columbia MWEA	Pam Schweitzer 636-561-9486	11/07/02 11/07/02	1	3.5	6.0	0.0	3.5	
Hydraulic Training 02-01-524	Kansas City NTT	Tonya Anderson 800-922-2820	11/12/02 11/14/02	3	21.0	21.0	21.0	21.0	
Adv Troubleshooting Membranes 02-09-009	Atlanta, GA David Paul Inc	Jenny Lund 877-711-4347	11/13/02 11/15/02	3	22.0	0.0	0.0	0.0	
Electrical Safety Training 02-01-525	Kansas City NTT	Tonya Anderson 800-922-2820	11/13/02 11/14/02	2	14.0	14.0	14.0	14.0	
Environmental Mgmt Institute 02-03-233	Rolla MoDNR/EAO	Ellen Harrel 800-361-4827	11/13/02 11/14/02	2	7.0	8.0	0.0	7.0	
W & WW Operator Training 02-06-486	St Peters EC Mo MWWC	Tom Aaron 636-926-9222	11/15/02 11/15/02	1	4.0	6.5	0.0	0.0	
Teletouch-All Things Wireless 02-04-574	Marble Hill MWWC	Sandi Miller 573-761-0376	11/20/02 11/20/02	1	6.5	6.5	0.0	6.5	
Land Application of Sludge 02-02-558	Macon MoDNR/NERO	Keith Phipps 660-385-2129	11/26/02 11/26/02	1	2.0	6.0	2.0	0.0	
Reverse Osmosis Trmt Hands-on 02-09-006	Farmington, NM David Paul Inc	Jenny Lund 877-711-4347	12/04/02 12/06/02	3	22.0	0.0	0.0	0.0	
Activated Sludge 02-02-542	Macon MoDNR/NERO	Keith Phipps 660-385-2129	12/09/02 12/11/02	2	0.0	12.0	0.0	0.0	
Chem. Cleaning Membrane Sys. 02-09-008	Farmington, NM David Paul Inc	Jenny Lund 877-711-4347	12/09/02 12/11/02	3	22.0	0.0	0.0	0.0	
Flagger Certification Class 02-01-606	Kansas City MARC	John Staples 785-474-4240	12/13/02 12/13/02	1	5.5	5.5	0.0	5.5	
Motor Starters, Contr Devices 02-06-058	Bridgeton Cntr. Tech. Inc	Jennifer Tucker 314-739-6050	12/13/02 12/13/02	1	6.5	6.5	6.5	6.5	
NPDES Permits & DMRs 02-02-544	Macon MoDNR/NERO	Keith Phipps 660-385-2129	12/18/02 12/18/02	1	0.0	6.0	0.0	0.0	



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